

File 347:JAPIO Oct 1976-2003/Jun(Updated 031006)

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File 350:Derwent WPIX 1963-2003/UD,UM &UP=200365

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Set	Items	Description
S1	1350846	RANK??? ? OR WEIGH??? ? OR RATE OR RATES OR RATING? OR RATED OR SCORE OR SCORES OR SCORED OR SCORING? OR VALUATION?
S2	2101	PRIORITIS? OR PRIORITIZ?
S3	62563	SORT OR SORTS OR SORTED OR SORTING?
S4	139135	S1:S2(2N)(HIGH??? ? OR ELEVAT? OR INCREAS?)
S5	2704	S1:S3(3N)(DOCUMENT? ? OR RECORD? ?)
S6	2057	S1:S3(3N)(PUBLICATION? ? OR FILE OR FILES OR FOLDER? ? OR -REPORT? ? OR MESSAGE OR MESSAGES)
S7	5111	S1:S3(3N)OBJECT? ?
S8	1586496	BEHAVIOR? ? OR BEHAVIOUR? ? OR ACTION? ? OR REACTION? OR REACTING? OR ACT OR ACTS OR ACTED OR REACT? ? OR REACTED OR REACTING
S9	3055886	VIEW OR VIEWS OR VIEWED OR VIEWING OR CLICK??? ? OR LOOK?? ? OR SEEN OR DISPLAY? OR SELECT OR SELECTS OR SELECTED OR SELECTION? OR SELECTING
S10	93201	CHOSE? ? OR CHOOS??? ?
S11	105664	S8:S10(3N)(USER? ? OR SEARCHER? OR CLIENT? ? OR SUBSCRIBER? OR REQUEST?R? ? OR CONSUMER? OR CUSTOMER? OR PATRON? ? OR INDIVIDUAL? ? OR PERSON? ? OR PARTICIPANT? OR MEMBER? ?)
S12	4595	S1:S3(3N)(TERM OR TERMS OR WORD OR WORDS OR TERMINOLOG? OR PHRASE OR PHRASES OR TEXT? ? OR LEXEME? ? OR MORPHEME? ?)
S13	233	S11 AND S5:S7
S14	14	S13 AND S4
S15	16	S13 AND S12
S16	6	S13 AND (VECTOR? OR MATRIX? OR MATRICE?)
S17	13832	IC='G06F-007/00':IC='G06F-007/004'
S18	59746	IC='G06F-017/30':IC='G06F-017/38'
S19	1616	MC='T01-H07C3C'
S20	9033	MC='T01-J05B3'
S21	8780	MC='T01-H07C5E'
S22	1	S13 AND S20 AND S21
S23	2	S13 AND S19
S24	801	MC='T01-N02B2A'
S25	2016	MC='T01-N03A2'
S26	1947	MC='T01-N01D2'
S27	8	S13 AND S24:S26
S28	4	S13 AND S17
S29	53	S13 AND S18
S30	1	S29 AND S8
S31	86	S11(25N)S5:S7
S32	20	S31 AND S18
S33	55	S14:S16 OR S22:S23 OR S27:S28 OR S30 OR S32
S34	55	IDPAT (sorted in duplicate/non-duplicate order)
S35	54	IDPAT (primary/non-duplicate records only)

? t35/9/1,6-11,14

35/9/1 (Item 1 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015549829 **Image available**

WPI Acc No: 2003-611984/200358

XRPX Acc No: N03-488102

Network-based document search apparatus has feedback unit that obtains

user's comments relating to compatibility of selected document, and
changes user -input keyword when selected document is non-compatible

Patent Assignee: RICOH KK (RICO)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2003216646	A	20030731	JP 200211996	A	20020121	200358 B

Priority Applications (No Type Date): JP 200211996 A 20020121

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2003216646	A		8 G06F-017/30	

Abstract (Basic): JP 2003216646 A

NOVELTY - A ranking unit (120) selects a higher-order document from a database (160), corresponding to a keyword input by the user. A feedback unit (180) obtains user's comments relating the compatibility of the selected document. When the selected document is non-compatible, related word is selected and added to the keyword. The document search is repeated using the new keyword, and retrieved document is presented to the user.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1)
- (2) document search method;
- (3) document search program; and
- (4) recorded medium storing document search program.

USE - For searching documents from document database, through network.

ADVANTAGE - By allowing users to provide feedback of information related to the problems in the document retrieval result, the search intent of the user is recognized reliably. Hence desired documents are searched from the database accurately.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the internal structure of the document search apparatus. (Drawing includes non-English language text).

keyword input unit (110)
document ranking unit (120)
word ranking unit (130)
keyword generation unit (140)
document output unit (150)
document database (160)
word dictionary (170)
feedback unit (180)
pp; 8 DwgNo 1/5

Title Terms: NETWORK; BASED; DOCUMENT; SEARCH; APPARATUS; FEEDBACK; UNIT;
OBTAIN; USER; COMMENTARY; RELATED; COMPATIBLE; SELECT; DOCUMENT; CHANGE;
USER; INPUT; KEYWORD; SELECT; DOCUMENT; NON; COMPATIBLE

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

Manual Codes (EPI/S-X): T01-J05B; T01-S03

35/9/6 (Item 6 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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015014040 **Image available**

WPI Acc No: 2003-074557/200307

XRPX Acc No: N03-057646

Computer documents identification method in Internet, involves monitoring user 's interactions with selected computer documents to identify relevant terms and topics related to contents of documents

Patent Assignee: MICRON TECHNOLOGY INC (MICR-N)

Inventor: FLEMING H A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6473752	B1	20021029	US 97985155	A	19971204	200307 B

Priority Applications (No Type Date): US 97985155 A 19971204

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6473752	B1	24	G06F-017/30	

Abstract (Basic): US 6473752 B1

NOVELTY - A user 's interactions with selected computer documents, are monitored and analyzed to identify relevant terms and topics related to the contents of the documents using the identified terms and topics, the topics of interest to the user is determined and prioritized . The documents containing contents related to the prioritized topics, are searched through a search engine.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Computer-implemented method for locating computer data of interest to user;
- (2) Computer system; and
- (3) Computer-readable medium containing instructions for controlling computer system to locate computer data of interest to user.

USE - For identifying computer documents of interest to a user in networks like Internet and intranets.

ADVANTAGE - Effectively locates and retrieves information of interest to a user, such as computer documents or data, without user specification of the areas of interest. Also, enables prioritizing received e-mail and other documents, facilitating easy access by the user.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the computer network.

pp; 24 DwgNo 2/10

Title Terms: COMPUTER; DOCUMENT; IDENTIFY; METHOD; MONITOR; USER; INTERACT; SELECT; COMPUTER; DOCUMENT; IDENTIFY; RELEVANT; TERM; TOPIC; RELATED; CONTENT; DOCUMENT

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

Manual Codes (EPI/S-X): T01-N03A2 ; T01-S03

35/9/7 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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015002978 **Image available**

WPI Acc No: 2003-063494/200306

XRPX Acc No: N03-049324

Document search device forms new keyword based on the word matching most with user input keyword, selected from documents segregated based on user input keyword

Patent Assignee: RICOH KK (RICO)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2002288215	A	20021004	JP 200188734	A	20010326	200306 B

Priority Applications (No Type Date): JP 200188734 A 20010326

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2002288215	A		9	G06F-017/30	

Abstract (Basic): JP 2002288215 A

NOVELTY - A **document ranking** unit (120) selects the document related to the user input keyword from a database (160). The word in the selected documents, which matches most with the keyword is selected by a **word ranking** unit (130). The selected word is added to the keyword to form a new keyword which is used by the **document ranking** unit to search the database (160) again.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Document search method;
- (2) Document search program; and
- (3) Recorded medium storing the document search program.

USE - Document search device.

ADVANTAGE - Desired document can be searched effectively in a short time.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the document search device. (Drawing includes non-English language text).

Document ranking unit (120)

Word ranking unit (130)

Database (160)

pp; 9 DwgNo 1/5

Title Terms: DOCUMENT; SEARCH; DEVICE; FORM; NEW; KEYWORD; BASED; WORD; MATCH; USER; INPUT; KEYWORD; SELECT; DOCUMENT; SEGREGATE; BASED; USER; INPUT; KEYWORD

Derwent Class: T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06F-017/21

File Segment: EPI

Manual Codes (EPI/S-X): T01-J05B3

35/9/8 (Item 8 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014938547 **Image available**

WPI Acc No: 2002-759256/200282

Related WPI Acc No: 2001-451682; 2002-392538; 2002-582341; 2002-635605; 2003-111091

XRPX Acc No: N02-597811

Messages selection method involves updating calculation of desired display rate for given messages using information in selected messages, by decreasing number of showings of messages to be displayed for preset time

Patent Assignee: FRIDMAN L (FRID-I); MANKINS M W D (MANK-I)

Inventor: FRIDMAN L; MANKINS M W D

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020112026	A1	20020815	US 2000618862	A	20000718	200282 B

US 2000237238	P	20001002
US 2000238232	P	20001004
US 2000751404	A	20001229
US 2000751661	A	20001229
US 2000751664	A	20001229
US 2000751689	A	20001229
US 2000751935	A	20001229
US 2001970153	A	20011002

Priority Applications (No Type Date): US 2001970153 A 20011002; US 2000618862 A 20000718; US 2000237238 P 20001002; US 2000238232 P 20001004; US 2000751404 A 20001229; US 2000751661 A 20001229; US 2000751664 A 20001229; US 2000751689 A 20001229; US 2000751935 A 20001229

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020112026	A1			82 G08G-001/123	CIP of application US 2000618862 Provisional application US 2000237238 Provisional application US 2000238232 CIP of application US 2000751404 CIP of application US 2000751661 CIP of application US 2000751664 CIP of application US 2000751689 CIP of application US 2000751935

Abstract (Basic): US 20020112026 A1

NOVELTY - The possible messages which are to be shown on an **individual display** at a given time, are selected based on **higher** desired display **rates** associated with different **messages**. The desired display **rate** calculation for given **messages** is updated using the information in the selected message, by decreasing number of showings of messages to be showed in preset time.

USE - For individually selecting messages such as TV advertisement, weather and traffic reports, news, public service announcements and information and entertainment programming, etc., to show in electronic displays such as LED, liquid crystal, CRT, electronic ink display that are mounted on vehicles e.g. taxi, bus, train, truck, passenger car, boat, airplane, etc.

ADVANTAGE - Provides more flexible, effective and profitable advertisement signs on the selected display devices to be viewed by the number of people estimated to have an opportunity to see an individual showing of a given message on a given display.

DESCRIPTION OF DRAWING(S) - The figure shows a side view of car with message display.

pp; 82 DwgNo 3/68

Title Terms: MESSAGE; SELECT; METHOD; UPDATE; CALCULATE; DISPLAY; RATE; MESSAGE; INFORMATION; SELECT; MESSAGE; DECREASE; NUMBER; MESSAGE; DISPLAY; PRESET; TIME

Derwent Class: T01; T04; T07; W05; W06; X22; X23

International Patent Class (Main): G08G-001/123

File Segment: EPI

Manual Codes (EPI/S-X): T01-C04D; T01-J07D1; T01-N01A2C; T04-H; T07-A05; T07-G; W05-E03A; W06-B01C9; W06-C01C9; X22-E11; X22-J; X22-P05A; X22-P05C; X23-C01

35/9/9 (Item 9 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014861368 **Image available**

WPI Acc No: 2002-682074/200273

XRPX Acc No: N02-538476

Repository information interacting method involves organizing objects retrieved by keyword query in accordance with context derived from relevance interface for displaying objects to user in ranking order

Patent Assignee: SCHUETZE H (SCHU-I); TURNBULL D R (TURN-I)

Inventor: SCHUETZE H; TURNBULL D R

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020103789	A1	20020801	US 2001770702	A	20010126	200273 B

Priority Applications (No Type Date): US 2001770702 A 20010126

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 20020103789	A1	23	G06F-007/00	

Abstract (Basic): US 20020103789 A1

NOVELTY - A relevance interface that defines a collection of content pointers of objects, is established. An object space in a network interface is searched to retrieve objects in accordance with a keyword query. The retrieved objects are organized in accordance with a context derived from the relevance interface for displaying the retrieved objects to user over network interface in a ranking order.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) A method for searching repository information;
- (2) A method for generating ordered recommendations of content sources from repository information; and
- (3) A method of structuring a collection of content pointers.

USE - For enhancing e-commerce activities through Internet.

ADVANTAGE - The electronic e-commerce activities are enhanced by making the system to access functionality of browser without any interference.

DESCRIPTION OF DRAWING(S) - The figure shows the schematic diagram of server system on which the method is applied.

pp; 23 DwgNo 2/8

Title Terms: REPOSITORY; INFORMATION; INTERACT; METHOD; ORGANISE; OBJECT; RETRIEVAL; KEYWORD; QUERY; ACCORD; CONTEXT; DERIVATIVE; RELEVANT; INTERFACE; DISPLAY; OBJECT; USER; RANK; ORDER

Derwent Class: T01

International Patent Class (Main): G06F-007/00

File Segment: EPI

Manual Codes (EPI/S-X): T01-J05B3; T01-N01A2A; T01-N03A2

35/9/10 (Item 10 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014822068 **Image available**

WPI Acc No: 2002-642774/200269

XRPX Acc No: N02-508095

Adaptive document ranking system for web-based searching, modifies determined feature vector associated with document based on user actions during search session so that document is ranked with respect to user actions

Patent Assignee: ABROL M S (ABRO-I); JOHNSON B M (JOHN-I); VERITY INC (VERI-N)

Inventor: ABROL M S; JOHNSON B M

Number of Countries: 099 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020103798	A1	20020801	US 2001775715	A	20010201	200269 B
WO 200261628	A1	20020808	WO 2002US2717	A	20020129	200269

Priority Applications (No Type Date): US 2001775715 A 20010201

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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US 20020103798	A1		8	G06F-007/00	
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WO 200261628	A1	E		G06F-017/30	
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZM
ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

Abstract (Basic): US 20020103798 A1

NOVELTY - A determination module determines a feature **vector** associated with a **document** which indicates weights for certain terms appearing in the respective document. The determined feature vector is modified based on user **actions** during a search session so that the **document** is **ranked** in response to the **user actions**.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for **document ranking** method.

USE - For **ranking documents** based on **user's behavior** for web-based searching.

ADVANTAGE - Provides efficient and reliable adaptive **document rank** system based on user requirement.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart for the document search method. 8

pp; 8 DwgNo 3/6

Title Terms: ADAPT; DOCUMENT; RANK; SYSTEM; WEB; BASED; SEARCH; MODIFIED;
DETERMINE; FEATURE; **VECTOR**; ASSOCIATE; DOCUMENT; BASED; USER; **ACTION**;
SEARCH; SESSION; SO; DOCUMENT; RANK; RESPECT; USER; **ACTION**

Derwent Class: T01

International Patent Class (Main): G06F-007/00 ; G06F-017/30

File Segment: EPI

Manual Codes (EPI/S-X): T01-J03; T01-N01D2 ; T01-N02B2A ; T01-N03A2

35/9/11 (Item 11 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014763313 **Image available**

WPI Acc No: 2002-584017/200262

XRPX Acc No: N02-463108

Estimating rank order for records by applying feature vector with derived fields to artificial intelligence algorithm and normalizing elements

Patent Assignee: DALLAS C A (DALL-I); TAYEBNEJAD M R (TAYE-I); VAN ARKEL J H (VARK-I); VAN CAMP K A (VCAM-I); WORLDCOM INC (WORL-N)

Inventor: DALLAS C A; TAYEBNEJAD M R; VAN ARKEL J H; VAN CAMP K A

Number of Countries: 100 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200263555	A2	20020815	WO 2002US3744	A	20020207	200262 B

US 20020161731 A1 20021031 US 2001266864 A 20010207 200274
US 200241549 A 20020110

Priority Applications (No Type Date): US 200241549 A 20020110; US
2001266864 P 20010207

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200263555 A2 E 51 G06N-000/00

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA
ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

US 20020161731 A1 G06F-017/00 Provisional application US 2001266864

Abstract (Basic): WO 200263555 A2

NOVELTY - Method consists in estimating a statistic relating values
of a categorical attribute to a bad debt risk and applying a feature
vector to an artificial intelligence algorithm (trained neural
network), repeating the steps for all **records**, which are then **ranked**
according to the output values. Probability distributions are
estimated for the risk as a function of an interest variable to
determine a **prioritization** value for each **record**.

DETAILED DESCRIPTION - There are INDEPENDENT CLAIMS for:

(1) A system for estimating **rank** order for **records**

(2) A computer program for estimating **rank** order for **records**

USE - Method is for information processing and **ranking** subjects
or their **records**, and can be used by long distance telephone
carriers.

ADVANTAGE - Method prompts analysis of the **behavior** of new
customers and allows early intervention to minimize delinquencies.

DESCRIPTION OF DRAWING(S) - The figure shows an illustrative neural
network.

pp; 51 DwgNo 1/14

Title Terms: ESTIMATE; RANK; ORDER; RECORD; APPLY; FEATURE; **VECTOR** ;
DERIVATIVE; FIELD; ARTIFICIAL; INTELLIGENCE; ALGORITHM; NORMALISE;
ELEMENT

Derwent Class: T01

International Patent Class (Main): G06F-017/00; G06N-000/00

File Segment: EPI

Manual Codes (EPI/S-X): T01-J16C1; T01-S03

35/9/14 (Item 14 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014606105

WPI Acc No: 2002-426809/200245

XRPX Acc No: N02-335611

Method for searching documents by locating documents meeting a composite
query including a basic query component and indexing components by
producing a composite score by combining non-Boolean scores for each
component

Patent Assignee: FOCUS ENGINE SOFTWARE LTD (FOCU-N)

Inventor: DAGAN I; FUKS A; PAVLOVITZ O; YELLIN I

Number of Countries: 097 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200237328	A2	20020510	WO 2001IL942	A	20011011	200245 B
AU 200210882	A	20020515	AU 200210882	A	20011011	200258

Priority Applications (No Type Date): US 2000690307 A 20001017

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200237328	A2	E	31	G06F-017/30	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
 CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
 IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
 PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
 Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
 IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200210882 A G06F-017/30 Based on patent WO 200237328

Abstract (Basic): WO 200237328 A2

NOVELTY - A user interface provides a composite query including a free-text query component and an indexing component such as a category component. Documents meeting the query are located and then scored by calculating a non-Boolean score according to each component and combining the scores to produce a composite **score** for each **document**. Supervised or non-supervised algorithms, e.g. using the Krellenstein technique, may be used to determine the indexing concept **score**. The **documents** may be **displayed** for a **user** with their composite score and the display order may reflect the composite scores.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for

(a) a system for obtaining a composite score of documents

(b) and a computer program product carrying program instructions for obtaining a composite score of documents

USE - Searching documents.

ADVANTAGE - Provides better search results.

pp; 31 DwgNo 0/3

Title Terms: METHOD; SEARCH; DOCUMENT; LOCATE; DOCUMENT; COMPOSITE; QUERY; BASIC; QUERY; COMPONENT; INDEX; COMPONENT; PRODUCE; COMPOSITE; SCORE; COMBINATION; NON; BOOLEAN; SCORE; COMPONENT

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

Manual Codes (EPI/S-X): T01-J05B1; T01-J05B3; T01-S03

?

PLEASE ENTER A COMMAND OR BE LOGGED OFF IN 5 MINUTES

? t35/9/24-25,32

35/9/24 (Item 24 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013997826

WPI Acc No: 2001-482041/200152

XRPX Acc No: N01-356749

Document classification for information retrieval system, involves comparing created term and document vectors and storing document at location relative to category node with term vector with preset relevance ranking

Patent Assignee: SUN MICROSYSTEMS INC (SUNM)

Inventor: MOCKER J D; SNOW W A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
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US 6185550 B1 20010206 US 97874783 A 19970613 200152 B

Priority Applications (No Type Date): US 97874783 A 19970613

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
US 6185550 B1 19 G06F-017/30

Abstract (Basic): US 6185550 B1

NOVELTY - **Term vectors** containing **weights** assigned to each of one or more common terms in the corresponding terms file are created and are compared with created document **vectors** of a **document** to provide relevance **ranking** between the **terms file** and document. The document is stored at a location corresponding to category node having a term **vector** which has a relevance ranking that matches a selected criteria.

DETAILED DESCRIPTION - A class hierarchy is created by providing several category nodes, each of which create term files. Class hierarchy having a root category node within a free data structure is initialized and **displayed**. **User selected** commands for manipulating the class hierarchy are entered. A category command is processed in response to the **user selected** command having predefined state which causes the class hierarchy to contain several category nodes. Category nodes include category name, node type, node ID, parent ID, link ID which are all stored in the database. When the node type is predefined type a new category node is allowed to be added to the selected category nodes, otherwise new category node is prevented from being added to the category nodes. The node ID defines the unique directory. The parent ID is indicating the node ID of a parent category node. The link ID is indicating the node ID of several category nodes when the node type is of a predetermined type.

INDEPENDENT CLAIMS are also included for the following:

- (a) Document classifying;
- (b) Document classification program

USE - For classification of documents within defined categories using class hierarchy in information retrieval system.

ADVANTAGE - Since the automatic document classification within user defined categories is provided, the user can interactively search for documents according to search terms defined within user defined categories. Since **documents** are **ranked** according to relevance and a user specified number of documents which are most relevant are returned, multiple users can access the document via network.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart of main procedure utilized in creation of the document directory hierarchy.

pp; 19 DwgNo 0/9

Title Terms: DOCUMENT; CLASSIFY; INFORMATION; RETRIEVAL; SYSTEM; COMPARE;
TERM; DOCUMENT; **VECTOR** ; STORAGE; DOCUMENT; LOCATE; RELATIVE; CATEGORY;
NODE; TERM; **VECTOR** ; PRESET; RELEVANT; RANK

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

Manual Codes (EPI/S-X): T01-E01C; **T01-H07C5E** ; T01-J05B2B; **T01-J05B3** ;
T01-J05B4; T01-S03

35/9/25 (Item 25 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013972935 **Image available**

WPI Acc No: 2001-457148/200149

XRPX Acc No: N01-338836

**Displaying records responsive to database query for searching databases,
sorting and delivering records to users by displaying selected
elements of at least one of responsive records**

Patent Assignee: ROSENTHAL P J (ROSE-I); WALTERS E J (WALT-I)

Inventor: ROSENTHAL P J; WALTERS E J

Number of Countries: 094 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200135274	A1	20010517	WO 2000US30786	A	20001109	200149 B
AU 200115914	A	20010606	AU 200115914	A	20001109	200152

Priority Applications (No Type Date): US 2000707911 A 20001108; US 99164549
P 19991110; US 2000707910 A 20001108

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200135274 A1 E 52 G06F-017/30

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP
KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT
RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR
IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200115914 A G06F-017/30 Based on patent WO 200135274

Abstract (Basic): WO 200135274 A1

NOVELTY - A list of identifiers and selected elements of at least one of the responsive records are displayed for a number of the responsive records. The list of identifiers and the selected elements are displayed simultaneously. The selected elements comprise the entirety of one of the responsive records or case citations. Records displayed in their entirety are identified and marked in a prior search request.

DETAILED DESCRIPTION - .

INDEPENDENT CLAIMS are included for:

(a) an apparatus for displaying records responsive to database query

(b) a method of sorting a first set of records

(c) a method of identifying additions to a list of records

USE - In the field of searching databases, sorting and displaying results, and delivering records to users.

ADVANTAGE - More efficiently displaying, representing, sorting, and navigating such responsive records. Reduces the need to access the full text of records in order to determine whether the record is relevant to the user's research. Allows users to sort the list of such records, and by showing users which records they have already reviewed. Lists responsive records in a side panel while the user reviews the full text of any responsive record, allowing the user to jump forward or back a number of records at a time by allowing users to re-sort the list of responsive records in the side pane.

DESCRIPTION OF DRAWING(S) - The drawing illustrates a flow diagram for a query in one embodiment of the present invention.

pp; 52 DwgNo 4/11

Title Terms: DISPLAY; RECORD; RESPOND; DATABASE; QUERY; SEARCH; SORT;

DELIVER; RECORD; USER; DISPLAY; SELECT; ELEMENT; ONE; RESPOND; RECORD

Derwent Class: T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06F-017/00

File Segment: EPI

Manual Codes (EPI/S-X): T01-C04; T01-E01A; T01-J05B2; T01-J05B3; T01-J12B

35/9/32 (Item 32 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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012278268 **Image available**
WPI Acc No: 1999-084374/199908
XRPX Acc No: N99-061012

Document display method for database - involves determining relevance values for documents depending on knowledge requirement of user , and displaying sorted documents in order of relevance

Patent Assignee: KNOWLEDGE HORIZONS PTY LTD (KNOW-N)

Inventor: PRESNELL P D; WHITE M A

Number of Countries: 003 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2327787	A	19990203	GB 9811769	A	19980601	199908 B
AU 9869054	A	19981203	AU 9869054	A	19980529	199909
US 6182067	B1	20010130	US 9886745	A	19980529	200108
GB 2327787	B	20020123	GB 9811769	A	19980601	200208

Priority Applications (No Type Date): AU 977105 A 19970602

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2327787	A		72	G06F-017/30	
US 6182067	B1			G06F-017/30	
GB 2327787	B			G06F-017/30	

Abstract (Basic): GB 2327787 A

The method involves accumulating usage information relating to each document in the database, and determining a usage score for each document, based on that usage information. A relevance value is assigned to each document based in part on the usage score.

The relevance value is stored with the respective document, and the documents are sorted according to their relevance values. Part of the sorted list of documents is then displayed to the user of the database.

A number of knowledge related concepts, representing a number of subjects, are established and stored; each concept being defined by a set of associated terms which are searchable within documents held in the database. A knowledge related profile, representing a knowledge requirement of the user, is established and stored; defined by a group of concepts selected from the concepts. The database is searched for documents matching the group of concepts and a profile score is determined for each matched document, indicating the level of match. The relevance value is partly based on that score.

ADVANTAGE - Profiling phase allows a user to create a knowledge concept which is a derivative of an existing knowledge concept, and may be marked as a private concept belonging to the user.

Dwg.14/26

Title Terms: DOCUMENT; DISPLAY; METHOD; DATABASE; DETERMINE; RELEVANT; VALUE; DOCUMENT; DEPEND; REQUIRE; USER; DISPLAY; SORT; DOCUMENT; ORDER; RELEVANT

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

Manual Codes (EPI/S-X): T01-J05B1; T01-J05B2B; T01-J05B3; T01-J05B4P; T01-J16C

? t35/9/34,36-38,40-42

35/9/34 (Item 34 from file: 350)

DIALOG(R)File 350:Derwent WPIX
(c) 2003 Thomson Derwent. All rts. reserv.

011584869 **Image available**

WPI Acc No: 1998-001998/199801

XRPX Acc No: N98-001542

**Hypertext document system for retrieving interrelated documents - has
hypertext documents analysed in conjunction with parent documents and
evaluates combination for relevance to search words**

Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (MATU); MATSUSHITA DENKI
SANGYO KK (MATU)

Inventor: HOSHIDA M; ISHIKAWA M; NOGUCHI Y; SATO M; YASUKAWA H

Number of Countries: 007 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 809197	A2	19971126	EP 97107823	A	19970513	199801 B
JP 9311870	A	19971202	JP 96149783	A	19960522	199807
KR 97076318	A	19971212	KR 9720036	A	19970522	199849
US 5848407	A	19981208	US 97861603	A	19970522	199905
JP 3108015	B2	20001113	JP 96149783	A	19960522	200060
KR 229395	B1	19991101	KR 9720036	A	19970522	200110
CN 1170908	A	19980121	CN 97111439	A	19970522	200325

Priority Applications (No Type Date): JP 96149783 A 19960522

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 809197	A2	E	36	G06F-017/30	
Designated States (Regional): DE FR GB					
JP 9311870	A		17	G06F-017/30	
KR 97076318	A			G06F-015/20	
US 5848407	A			G06F-017/30	
JP 3108015	B2		17	G06F-017/30	Previous Publ. patent JP 9311870
KR 229395	B1			G06F-017/00	
CN 1170908	A			G06F-015/00	

Abstract (Basic): EP 809197 A

The hypertext document system has a document management unit (8) containing numerous documents. These documents are analysed (7) to establish parent relationships between the documents. Anchor sentences referring to other documents are connected with the referenced documents to form a unified hypertext document. An indexing unit (6) establishes the location and frequency of words within the combined documents.

A user (9) can input key words to generate a search. The retrieving unit identifies relevant unified documents and a ranking system assigns a priority or relevance to each document. The results are displayed allowing user retrieval of documents.

ADVANTAGE - by combining parent anchor sentences with referenced documents the ranking process becomes more relevant to the user.

Dwg.3/21

Title Terms: DOCUMENT; SYSTEM; RETRIEVAL; INTERRELATED; DOCUMENT; DOCUMENT;
ANALYSE; CONJUNCTION; PARENT; DOCUMENT; EVALUATE; COMBINATION; RELEVANT;
SEARCH; WORD

Derwent Class: T01

International Patent Class (Main): G06F-015/00; G06F-015/20; G06F-017/00;
G06F-017/30

International Patent Class (Additional): G06F-012/00; G06F-017/21;
G06F-017/27

File Segment: EPI

Manual Codes (EPI/S-X): T01-H07C3C ; T01-J11C1

35/9/36 (Item 36 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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011286042 **Image available**
WPI Acc No: 1997-263947/199724
XRPX Acc No: N97-218284

Link setting method in multimedia processing appts for setting up link between document, moving image, image and audio data - involves selecting linking agency word in document to establish link between document and other multimedia data based on rate of appearance in document for every document structure attribute

Patent Assignee: TOSHIBA KK (TOKE)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Week
JP 9091187 A 19970404 JP 95247274 A 19950926 199724 B

Priority Applications (No Type Date): JP 95247274 A 19950926

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
JP 9091187 A 12 G06F-012/00

Abstract (Basic): JP 9091187 A

The method involves selecting a linking agency word from the document data text file to link the document data and other data e.g. image and audio data of the multimedia appts. To select the linking agency word, the document structure is first extracted from the document data. The rate of appearance of the linking agency word in the document data for every attribute included in the document structure is obtained.

The user then select the arbitrary words with high rate of appearance as the linking agency word from table such that the linking agency word is expressed for every attribute of the document structure. This linking agency word sets-up the link place for linking the document data with other data.

ADVANTAGE - Sets link only to suitable linking agency word. Enables user selection of link word.

Dwg.2/15

Title Terms: LINK; SET; METHOD; PROCESS; APPARATUS; SET; UP; LINK; DOCUMENT; MOVE; IMAGE; IMAGE; AUDIO; DATA; SELECT; LINK; AGENT; WORD; DOCUMENT; ESTABLISH; LINK; DOCUMENT; DATA; BASED; RATE; APPEAR; DOCUMENT; DOCUMENT; STRUCTURE; ATTRIBUTE

Derwent Class: T01

International Patent Class (Main): G06F-012/00

International Patent Class (Additional): G06F-009/06

File Segment: EPI

Manual Codes (EPI/S-X): T01-H07C3D; T01-J30

35/9/37 (Item 37 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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011119221 **Image available**
WPI Acc No: 1997-097146/199709
XRPX Acc No: N97-080543

Document processing appts for E-mail and E-news applications - in which contents of information source priority retainer are updated, based on

evaluation of displayed information by user

Patent Assignee: CANON KK (CANO)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8335265	A	19961217	JP 95164759	A	19950607	199709 B

Priority Applications (No Type Date): JP 95164759 A 19950607

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 8335265	A	6	G06T-001/00	

Abstract (Basic): JP 8335265 A

The document processing appts involves holding of document description in a document retainer (102). The degree of coincidence of the document description is found by a calculation part (104). The sorting description related to the document is held in a storing description retainer (103). The document retainer contains the name of the information source. The priority of this source is checked by an information source priority retainer (105). A threshold value calculator (106) calculates the threshold value, using the searched information source priority. The calculated degree of coincidence is compared with the calculated threshold value.

When the degree of coincidence exceeds the threshold value, the document is selected by a document selector (107), and is held in a **sorting document** retainer (108). The document is displayed on a document display part (109) and the **user** evaluates whether the **displayed** information is actually required. Based on the evaluation, the contents of the information source priority retainer are updated. The information source priority is defined from the number of documents selected by the user.

ADVANTAGE - Provides information suitable to user's needs by sorting of documents according to user's requirement.

Dwg.1/5

Title Terms: DOCUMENT; PROCESS; APPARATUS; MAIL; NEWS; APPLY; CONTENT; INFORMATION; SOURCE; PRIORITY; RETAIN; UPDATE; BASED; EVALUATE; DISPLAY; INFORMATION; USER

Index Terms/Additional Words: WORD; PROCESSOR

Derwent Class: T01

International Patent Class (Main): G06T-001/00

International Patent Class (Additional): G06F-017/21; G06F-017/30 ; G06T-007/00

File Segment: EPI

Manual Codes (EPI/S-X): T01-H07C1; T01-J05A; T01-J11

35/9/38 (Item 38 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010828769 **Image available**

WPI Acc No: 1996-325721/199633

XRPX Acc No: N96-274232

Document processor for network maintenance - has correction unit for held sorted feature based on document feature from document evaluator which determines if user needs selected additional document

Patent Assignee: CANON KK (CANO)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
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JP 8147327 A 19960607 JP 94305559 A 19941115 199633 B

Priority Applications (No Type Date): JP 94305559 A 19941115

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
JP 8147327 A 7 G06F-017/30

Abstract (Basic): JP 8147327 A

The processor has a sorted feature holder (103) provided for the feature of a document that interested a user. A document sorter (104) is provided for the documents whose features corresponds with the sorted feature. An additional document selector (107) chooses a portion in the document released from the document sorter.

A document evaluator (112) determines if the user needs the selected document. A correction unit (113) is provided for the held sorted feature based on the feature of the evaluated document.

ADVANTAGE - Ensures efficient use of data since visual field narrowing to new data is prevented.

Dwg.1/9

Title Terms: DOCUMENT; PROCESSOR; NETWORK; MAINTAIN; CORRECT; UNIT; HELD; SORT; FEATURE; BASED; DOCUMENT; FEATURE; DOCUMENT; EVALUATE; DETERMINE; USER; NEED; SELECT; ADD; DOCUMENT

Derwent Class: T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06F-017/21

File Segment: EPI

Manual Codes (EPI/S-X): T01-J05B; T01-J11

35/9/40 (Item 40 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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010409905 **Image available**

WPI Acc No: 1995-311252/199540

XRPX Acc No: N95-235085

Intelligent hyper-media text system for on-line navigation - stores user goal objects and text panel objects to form hyper-text object, stores link profiles contg. link vectors each having weights representing user activity relationship between objects and uses advisor to create weight -ordered object

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: CHEN J R; FALLSIDE D C; FENWICK J R; FORCIER M D; KAPLAN C A; WOLFF G J

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5446891	A	19950829	US 92841965	A	19920226	199540 B
			US 94333082	A	19941102	

Priority Applications (No Type Date): US 92841965 A 19920226; US 94333082 A 19941102

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
US 5446891 A 17 G06F-017/30 Cont of application US 92841965

Abstract (Basic): US 5446891 A

The smart hyper-media system acquires user characteristics either directly or inferentially. Simple associative networks serve to model user profiles, including relationships between user goals and the hyper-media information nodes. Hyper-media links to other nodes are

recommended by ranking a link list in an order that depends on one or more user profiles containing information relating to users' goals and interests. Users can teach the system directly by rearranging the order of suggested links on the list. The system can also learn indirectly by observing how long and in what sequence the user views each hyper-media information node.

User profiles can be combined to form group profiles and may be dynamically and continuously updated to form an adaptive system profile. The two system learning modes may be simultaneous or disjoint.

ADVANTAGE - Avoids overwhelming user with choices by introducing concept of graduated link-weight values for ordering linked nodes in list, so that most relevant link targets appear first in list. Incorporates links between all nodes within hyper medium.

Dwg.2/7

Title Terms: INTELLIGENCE; HYPER; MEDIUM; TEXT; SYSTEM; ON-LINE; NAVIGATION ; STORAGE; USER; GOAL; OBJECT; TEXT; PANEL; OBJECT; FORM; HYPER; TEXT; OBJECT; STORAGE; LINK; PROFILE; CONTAIN; LINK; VECTOR ; WEIGHT; REPRESENT; USER; ACTIVE; RELATED; OBJECT; WEIGHT; ORDER; OBJECT

Derwent Class: T01; W01

International Patent Class (Main): G06F-017/30

File Segment: EPI

Manual Codes (EPI/S-X): T01-H07C1; T01-J05B3; T01-J11; W01-A06B5B; W01-A06E1; W01-A06G2; W01-A06X; W01-A07H

35/9/41 (Item 41 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009838091 **Image available**

WPI Acc No: 1994-117947/199414

Related WPI Acc No: 1990-233036

XRPX Acc No: N94-092449

Text search and retrieval system - builds index representing every word in stored files created by variety of applications, searches for requested words using index and ranks files based on relative strength of match with search request.

Patent Assignee: LOTUS DEV CORP (LOTU-N)

Inventor: COLWELL S; GROSS L S; GROSS W T; HASIUK L; ROLFE D

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 5303361	A	19940412	US 89298366	A	19890118	199414 B
			US 89336963	A	19890412	
			US 89436146	A	19891113	
			US 90466750	A	19900118	

Priority Applications (No Type Date): US 90466750 A 19900118; US 89298366 A 19890118; US 89336963 A 19890412; US 89436146 A 19891113

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 5303361	A		20	G06F-003/14	CIP of application US 89298366
					CIP of application US 89336963
					CIP of application US 89436146

Abstract (Basic): US 5303361 A

The system includes an index module connected to a number of stored files for generating an index file, the contents of which are representative of the contents of the stored files. An interface module connected to the index file accepts a search request from a user and

applies the search request to the index file to determine a list of stored files, the contents of which satisfy the search request. A viewer module connected to the interface module simultaneously displays the list of stored files and the contents of a particular stored file which the **user** has **selected** from the list of stored files.

A launch module connected to the viewer module invokes a software application appropriate for manipulating the particular stored file being displayed by the view module. The contents of the selected stored file is displayed in a variable format appropriate to the application which created the particular selected stored file without, however, actually loading and running the application.

ADVANTAGE - To work on file in **view**, **user** can invoke software application which created file by loading application corresp. to viewer along with desired file, without abandoning search system.

Dwg.1/11

Title Terms: TEXT; SEARCH; RETRIEVAL; SYSTEM; BUILD; INDEX; REPRESENT; WORD ; STORAGE; FILE; VARIETY; APPLY; SEARCH; REQUEST; WORD; INDEX; RANK; FILE ; BASED; RELATIVE; STRENGTH; MATCH; SEARCH; REQUEST

Derwent Class: T01

International Patent Class (Main): G06F-003/14

File Segment: EPI

Manual Codes (EPI/S-X): T01-J05B1; T01-J05B3

35/9/42 (Item 42 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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009417821 **Image available**

WPI Acc No: 1993-111335/199314

XRPX Acc No: N93-084796

Determining inheritance and propagation of object attribute values - making propagation group for new object attribute values in response to user designation of relating factors

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC)

Inventor: TORRES R J

Number of Countries: 004 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 536074	A2	19930407	EP 92480120	A	19920828	199314 B
US 5241624	A	19930831	US 91771280	A	19911003	199336
EP 536074	A3	19930609	EP 92480120	A	19920828	199404

Priority Applications (No Type Date): US 91771280 A 19911003

Cited Patents: 1.Jnl.Ref

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 536074	A2	E	24	G06F-009/44	
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Designated States (Regional): DE FR GB

US 5241624	A	23	G06F-007/00	
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EP 536074	A3		G06F-009/44	
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Abstract (Basic): EP 536074 A

The method involves identifying a target object in response to **user selection**. Attribute values for the target object are generated by displaying prior attribute values for the target object then generating new attribute values in response to **user selection**.

A propagation group of related objects is identified in response to user designation of relating factors. The new attribute values are applied to the related group of objects.

ADVANTAGE - Enhances propagation of object values among objects in

a data processing system, in particular enhancing access to attribute values for an object type on a particular level in a data hierarchy.

Dwg.8/18

Abstract (Equivalent): US 5241624 A

The method involves identification of a target object within an object hierarchy in response to **user selection**. The prior attribute values for the target object are then **displayed**. Upon **user selection**, new object attribute values are generated for the target object.

A propagation group for the new object attribute values is made in response to user designation of relating factors and the new object attribute values are applied to all objects within the related group.

USE/ADVANTAGE - Defines propagation groups fro object attribute values independent of **object rank** or inter-relation; use control of scope of value changes.

Dwg.11/18

Title Terms: DETERMINE; PROPAGATE; OBJECT; ATTRIBUTE; VALUE; PROPAGATE; GROUP; NEW; OBJECT; ATTRIBUTE; VALUE; RESPOND; USER; DESIGNATED; RELATED; FACTOR

Derwent Class: T01

International Patent Class (Main): G06F-009/44

International Patent Class (Additional): G06F-007/06

File Segment: EPI

Manual Codes (EPI/S-X): T01-F05; T01-J12B

? t35/9/47-49,51,53

35/9/47 (Item 47 from file: 347)

DIALOG(R)File 347:JAPIO

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06824528 **Image available**

DATA TOTALIZATION AND REFERENCE TYPE RETRIEVAL SYSTEM

PUB. NO.: 2001-052022 [JP 2001052022 A]

PUBLISHED: February 23, 2001 (20010223)

INVENTOR(s): TAMAOKI KENICHI

SAITO MUNEHISA

SOMEYA HIROSUKE

NAKATANI YOICHI

APPLICANT(s): JAPAN PATENT INFORMATION ORGANIZATION

APPL. NO.: 11-228918 [JP 99228918]

FILED: August 12, 1999 (19990812)

INTL CLASS: G06F-017/30

ABSTRACT

PROBLEM TO BE SOLVED: To provide a system which presents information, which enables a **user** to **select** a better retrieval term, to the user from a retrieval result.

SOLUTION: First, the user uses a technical term meeting retrieval contents to perform retrieval based on a keyword (S202). A set of documents to which the designated keyword is given is generated to display the result. This set of **documents** is subjected to **rank** processing (S204). In the **rank** processing, retrieval **terms** of a designated item are displayed in the order of frequency with respect to a set of documents of the retrieval result (S206). Thus, information indicating which terms are given to the set of documents of the retrieval result and how frequently they are given is presented to the user. If a term is a classification, its explanation is presented also so that the user can easily understand it. Further, correlation display is possible. With respect to this correlation display, for example, a term having the highest frequency is designated to indicate

correlation display (S208), and terms of a designated item are displayed in the order of frequency together with their explanatory sentences (S210).

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35/9/48 (Item 48 from file: 347)
DIALOG(R)File 347:JAPIO
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06504393 **Image available**
INFORMATION MANAGEMENT DEVICE AND RECORDING MEDIUM RECORDED WITH PROGRAM THEREOF

PUB. NO.: 2000-090109 [JP 2000090109 A]
PUBLISHED: March 31, 2000 (20000331)
INVENTOR(s): WADA MASAHIRO
NAKAGAWA KANJI
UTSUNOMIYA HAYATO
KAMAKURA TASHI
FURUKAWA KATSUYASU
APPLICANT(s): SHARP CORP
APPL. NO.: 10-257213 [JP 98257213]
FILED: September 10, 1998 (19980910)
INTL CLASS: G06F-017/30

ABSTRACT

PROBLEM TO BE SOLVED: To provide the information management device which is applicable over a wide range and can vary importance according to a user.

SOLUTION: When information is inputted, an information analysis part 13c of the information management device 2 calculates initial values of the **file weight** coefficient of a **file** to contain the information and the **key word weight** information of a key word constituting the information as initial values of weight coefficients and stores them in a weight coefficient storage part 11b. An importance calculation part 14b calculates the importance of each piece of information according to the weight coefficients. For example, when the **user** indicates the **display**, output, etc., of information, an operation frequency, a display time, etc., are stored in a history storage part 11c and a weight coefficient process part 14a adjusts the weight coefficients used to calculate the importance of the operated information. The weight coefficients are adjusted in normal operation, so the information management device 2 is able to calculate the importance of information matching the feeling of the user even if the user does not manages the importance of the information.

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35/9/49 (Item 49 from file: 347)
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06168868 **Image available**
METHOD FOR RETRIEVING INFORMATION AND SYSTEM THEREFOR, AND COMPUTER-READABLE RECORDING MEDIUM FOR RECORDING INSTRUCTION FOR RETRIEVING INFORMATION FROM ONE SET OF DOCUMENTS

PUB. NO.: 11-110415 [JP 11110415 A]
PUBLISHED: April 23, 1999 (19990423)
INVENTOR(s): DAVID A EVANS

APPLICANT(s): KURARITEC CORP
APPL. NO.: 10-140773 [JP 98140773]
FILED: May 22, 1998 (19980522)
PRIORITY: 900641 [US 900641], US (United States of America), July 25,
1997 (19970725)
INTL CLASS: G06F-017/30

ABSTRACT

PROBLEM TO BE SOLVED: To make easily retrievable a specific part of a document.

SOLUTION: One set of sub-documents are set base on one set of documents (S102). A query acting one set of sub-documents as objects is processed, and a score is generated to each sub- document (S104). The score of each sub- document indicates relevance to the query of the corresponding sub- document . The score is examined (S106), and an optimal sub-document is retrieved (S108). The optimal sub- document has the score indicating the highest relevance to the query. The next optimal sub-document is retrieved based on the selection of a user . The sub-documents are shown to the user in the order of the scores . Also, a document including the sub- document with the optimal score is displayed, and automatically scrolled to the position of the sub-document. The document is automatically scrolled to the position of the next optimal sub-document based on the input of the user. When the next optimal sub-document is included in another document, the document is automatically loaded.

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04751967 **Image available**
DOCUMENT RETRIEVAL DEVICE

PUB. NO.: 07-044567 [JP 7044567 A]
PUBLISHED: February 14, 1995 (19950214)
INVENTOR(s): SATO OSAMU
APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP
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APPL. NO.: 05-188243 [JP 93188243]
FILED: July 29, 1993 (19930729)
INTL CLASS: [6] G06F-017/30
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications); 45.2
(INFORMATION PROCESSING -- Memory Units)

ABSTRACT

PURPOSE: To provide a document retrieval device capable of obtaining an absolutely sufficient retrieved result with the retrieval of one time by retrieving similar documents from a document data base with the document itself as a retrieval key.

CONSTITUTION: This document retrieval device is constituted of a retrieval key word set generation means 2 for analyzing an input document 1 and generating a retrieval key word set 3 for which weighing corresponding to document component elements is performed and a document retrieval means for retrieving the document data base based on the retrieval key word set 3, calculating the weight of respective matched key words for each document obtained as a result and obtaining cumulative weight for the document

of the retrieved result. Since the cumulative weight indicating the degree of similarity with the input document is added to the retrieved result, a user can efficiently select the retrieved result by referring to it.

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03259676 **Image available**
CONCEPT RETRIEVING DEVICE

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PUBLISHED: September 18, 1990 (19900918)
INVENTOR(s): MORITA TETSUYA
APPLICANT(s): RICOH CO LTD [000674] (A Japanese Company or Corporation), JP
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FILED: March 09, 1989 (19890309)
INTL CLASS: [5] G06F-015/40
JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications)
JOURNAL: Section: P, Section No. 1139, Vol. 14, No. 551, Pg. 124,
December 07, 1990 (19901207)

ABSTRACT

PURPOSE: To improve document retrieving performance by using a keyword group based upon a prescribed sort to calculate a **vector** using the assignment degree of the document as an element and representatively and quantitatively processing the concept of each document.

CONSTITUTION: A reference document is read out as a registered document 1 and a keyword is extracted and registered in a thesaurus **file** 20. The **sort** (k) of the **file** 20 and the appearance frequency of the keyword (j) are counted and logical experience probability is calculated by a logical experience probability calculating part 10 based upon a required formula. Then, a document (i) is inputted, the keyword (j) is extracted and the appearance frequency, the degree of assignment and a concept feature value **vector** are calculated by a calculating part 10 based upon a required formula. When a **user** **selects** plural keywords by a self-request, a document retrieving part 12 finds out the degree of assignment, the concept feature value **vectors** and the distances of concept of all the documents from retrieving condition equations and displays the documents in the ascending order of distances on a display part 2 as a retrieved result. Consequently, the user can obtain retrieval in the order close to the self requesting concept.

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